

## ABSTRACT OF THE DISCLOSURE

A carbon nanotube manufacturing method is employed, in which a carbon nanotube manufacturing apparatus (1000, 2000, 3000) comprises an ionizing means (e.g., a negative ion generator (10)) for ionizing a vapor of a certain carbon-containing compound, an electric field generating means (e.g., a direct-current power supply (21), a cathode (22) and an anode (23)) for generating an electric field and a heating means (e.g., a high-frequency heater (30)) for heating a growth substrate (50, 55) disposed within the electric field generated by the electric field generating means, and in which a vaporized gas of the carbon-containing compound, the vaporized gas being ionized, is caused to pass through the electric field and to come into contact with the heated growth substrate, so that a well aligned growth of carbon nanotube (4) on the growth substrate can be obtained.